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PANK3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7161a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9H999
Other Accession	Q8R2W9, Q08DA5
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5490
Calculated MW	41094
Antigen Region	1-30

Additional Information

Gene ID	79646
Other Names	Pantothenate kinase 3, hPanK3, Pantothenic acid kinase 3, PANK3
Target/Specificity	This PANK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PANK3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PANK3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PANK3
Function	Catalyzes the phosphorylation of pantothenate to generate 4'-phosphopantothenate in the first and rate-determining step of coenzyme A (CoA) synthesis.

Cellular Location	Cytoplasm {ECO:0000269|PubMed:23152917, ECO:0000305}
Tissue Location	Highly expressed in the liver.

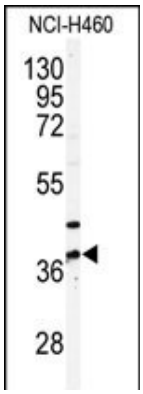
Background

PANK3 belongs to the pantothenate kinase family. Pantothenate kinase is a key regulatory enzyme in the biosynthesis of coenzyme A (CoA) in bacteria and mammalian cells. It catalyzes the first committed step in the universal biosynthetic pathway leading to CoA and is itself subject to regulation through feedback inhibition by CoA. This family member is expressed most abundantly in the liver.

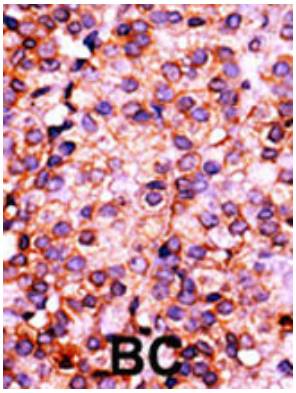
References

Zhou, B., et al., Nat. Genet. 28(4):345-349 (2001).
Robishaw, J.D., et al., Am. J. Physiol. 248 (1 PT 1), E1-E9 (1985) (): ().

Images



Western blot analysis of anti-PANK3 Antibody (N-term) (Cat.#AP7161a) in NCI-H460 cell line lysates (35ug/lane). PANK3(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.